•	A P 41	[A
	Application No.	Applicant(s)
Nation of Allowahility	09/530,465	HUI ET AL.
Notice of Allowability	Examiner	Art Unit
	Anh-Vu H Ly	2667
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comn IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed July</u>	<u>/ 15, 2004</u> .	et with the correspondence address ED in this application. If not included immunication will be mailed in due course. THIS in is subject to withdrawal from issue at the initiative are do or (f). Ideation No Id
2. The allowed claim(s) is/are 1, 3-13, 15-25 renumbered as	<u>1-23</u> .	
3. \boxtimes The drawings filed on <u>28 April 2000</u> are accepted by the E	xaminer.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicat	on No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment of	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No	./Mail Date
Paper No./Mail Date4. ☐ Examiner's Comment Regarding Requirement for Deposit	8 M Evaminar	s Statement of Reasons for Allowance
of Biological Material	9. Other	

Application/Control Number: 09/530,465

Art Unit: 2667

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with E. Russell Tarleton on October 27, 2004.

The application has been amended as follows:

Abstract

Replace the abstract of the disclosure with the attached abstract.

In The Claims

1. (Currently Amended) An apparatus for depacketizing and aligning input data having a packetized format, comprising:

an input memory for receiving, storing, and output of input data, and for outputting of units of a payload of a data packet of the input data;

a data input interface through which the input data is transferred to the input
memory, said input data interface configured to perform hand shaking with a packetized
data source of said input data;

data processing means for receiving the outputted input data from the input memory and detecting, identifying and determining payload size of the data packet and generating a payload size signal indicative of the size of the payload, and for separately receiving and effecting data processing of the payload;

a word formatter for receiving said units of said payload outputted from the input memory, gathering and aligning said units to form data words, and for outputting said data words;

a payload counter for controlling the input memory in accordance with the payload size signal and configured to cause the payload units to be outputted from the input memory to the word formatter; and

an input buffer for receiving said data words from the word formatter and storing them, and for transferring the data words to the data processing means, to effect separate receiving of said payloads; and processing using the received said data words.

Allowable Subject Matter

2. Claims 1, 3-13, and 15-25 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not teach or fairly suggest that the data processing means is used only for determining the size of the payload and generating the size signal and then for subsequent processing of the formatted words retrieved from the packetized input data, as specified in independent claims 1, 13, 24, and 25.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chopping (US Patent No. 6,442,163 B1) discloses depacketizer and a frame aligner including the depacketizer.

Settle et al (US Patent No. 6,233,253 B1) discloses system for digital data format conversion and bit stream generation.

Gaytan et al (US Patent No. 5,638,367) discloses apparatus and method for data packing through addition.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

avl

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600 (2/78/07)

Art Unit: 2667

Abstract

Apparatus for depacketizing and aligning packetized input data. Data processing means receives the input data via an input memory and detects, identifies, and determines payload size of a data packet of the input data. The data processing means generates a payload size signal indicative of the size of the payload. A word formatter receives units of the payload from the input memory and gathers and aligns these to form data words. A payload counter controls flow of input data from the input memory to the word formatter in accordance with the payload size signal. An input buffer receives the data words from the word formatter, stores these and transfers them to the data processing means for effecting data processing.